DVR 850HD
Underwater Digital Video Camcorder

User Manual

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we make it easy™

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Contents

Introduction 2
What Your Camcorder Includes 2
Camcorder Technical Specifications 3
Computer System Requirements – Windows 4
Computer System Requirements – Macintosh 4
A Quick Look at your Digital Camcorder 5
Preparing Your Camcorder for Use 6
Maintenance and Care 12
Initial Camcorder Setup 13
Using Your Digital Camcorder 15
Changing Camcorder Mode 16
Navigating the Menus 17
Video Capture Mode 18
Video Playback Mode 36
Photo Capture Mode 39
Photo Playback Mode 60
TV Out Function to Connect the Camcorder to a TV or HDTV 65
Installing the Software 66
Connecting the Camcorder to the Computer 69
Getting Photos and Videos from Your Camcorder to Your Computer 70
Get started! 71
Transfer media from my camcorder to my computer manually (Using Windows) 72
Transfer media from my camcorder to my computer manually (Using Macintosh) 73
Sakar Warranty Card 74
Technical Support 75
Troubleshooting 76

Introduction

Thank you for purchasing this camcorder. Everything you need to take quality digital photos and videos is included with your camcorder.

High Definition Resolutions and Water Resistant up to 10 feet /3 meters.

Vivitar makes capturing those special moments as easy as possible.

Note: Your camcorder needs an SD Memory card (up to 16GB) for normal use.

SD Memory cards are not included and need to be purchased separately.

Please read this manual carefully first in order to get the most out of your digital camcorder.

What Your Camcorder Includes

- Digital Video Camcorder
- Vivitar Experience Image Manager software Installation CD
- USB/AV cable
- Lithium Battery
- AC Adapter
- Easy Guide
- Strap
- Warranty Certificate

Camcorder Technical Specifications

Image Sensor	CMOS Sensor
Image Resolution	3264x2448(8M); 2592x1944(5M);2048x1536(3M); 640x480(VGA)
Video Resolution	1280X720 (HD), 720X480 (SD)
File Format	JPEG/MP4
Internal Memory	32MB
External Memory	SD Card (up to 16GB)
LCD Display	2.4 Inch TFT LCD
Lens	f=7.0mm F3.0
Zoom	4X Digital Zoom
Exposure	-3.0EV ~ +3.0EV
White Balance	Auto, Daylight, Cloudy, Incandescent , Fluorescent
Scene	Auto / Scenery / Portrait / Night Scenery / Night Portrait / High Sensitivity / Sport / Beach / Party
Flash	Auto/Force/Off
Self-Timer	2,5or 10 sec delay
Microphone	YES
Speaker	YES
TV Out	NTSC / PAL
Print Photos	YES
Multi Snapshots	YES
Interface	USB 2.0
System Requirements	Windows XP and above / Mac OSX 10.5 and above
Battery	Lithium (3.7V)
Working Temperature	0~40 ℃

Computer System Requirements – Windows

To be able to download photos and videos to your PC, you will need the following minimum configuration:

- Pentium 4 processor or above with Windows XP service pack 2, Windows Vista or Windows 7
- 512 MB RAM, with 100MB of free disk space
- 1024 x 768 Recommended screen resolution
- 16-bit color or higher display adaptor
- CD-ROM Drive
- QuickTime 6 or higher
- Microsoft Internet Explorer 7 or higher
- Windows Media Player 10 or higher
- Internet connection required

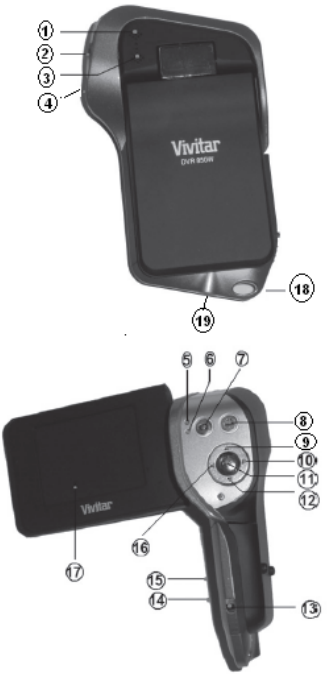
Computer System Requirements – Macintosh

Macintosh with Intel processor running Mac OS X v10.5 or later

- 256 MB RAM, 100 MB free disk space
- Display: 1024 x 768 or higher-resolution monitor
- QuickTime 6 or higher
- Internet connection required

A Quick Look at your Digital Camcorder

1. Speaker
2. Lens
3. Microphone
4. Flash Strobe
5. DV/DC Mode LED
6. Lithium-ion Battery Charging Indicator
7. DC (Photo) Mode Button
8. DV (Video) Mode Button
9. Up / Zoom In Button
10. Right / Flash Strobe Button
11. OK / Menu Button
12. Down / Zoom Out Button
13. Battery / SD Card Compartment / USB Slot
14. Power Button
15. Playback Button
16. Left Button
17. LCD Color Display Panel
18. Strap Hole
19. Tripod Socket

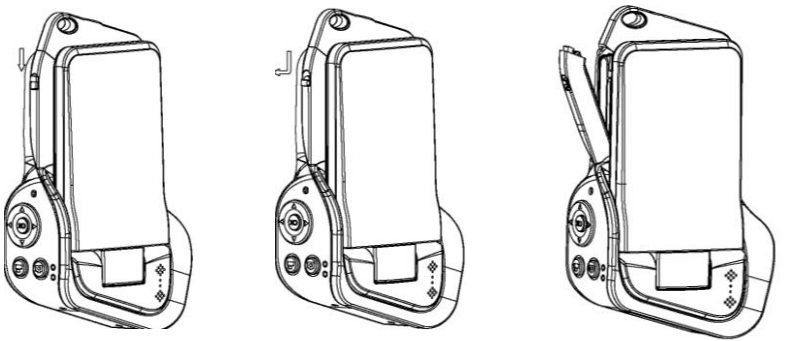


Preparing Your Camcorder for Use

Important: Before installing the batteries make sure you are not near water and that your hands are dry.

Open Battery Door

Turn and hold the camcorder with the bottom facing up and the battery door facing you as shown in the diagrams below. Hold the main body of the camcorder with one hand and use your other hand to pull the small battery cover lever down to the end (A). You may need to exert a little force before you hear a “click” for the battery door to release (B). Gently pull the battery door outwards, and open it slowly with your finger (C).



(A) **(B)** **(C)**

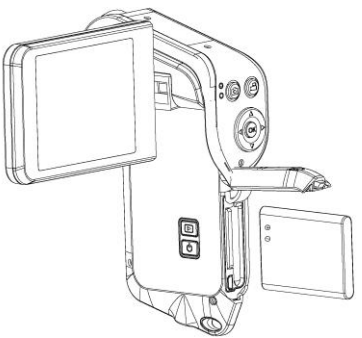
Notes:

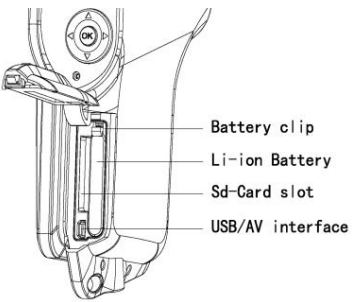
1. When opening the battery door, do **not** hold the LCD screen side, as excessive force may destroy the screen joint.
2. In order to assure water resistance, do **not** attempt to remove or rip off the Rubber Seal on the inside of battery door.
3. This is a water resistance camcorder. You may feel the battery door is very tight and difficult to open. This is normal. Just follow the above instructions, and make sure to pull the battery cover lever down to the end of the slot.

Install lithium battery

Your digital camcorder needs a lithium battery in order to operate. The battery is found separately in the packaging. To install it correctly see the diagram below:

1. Insert the battery in the battery compartment with the correct polarity facing up.





2. Use the battery clip found in the battery compartment to make sure that the battery is sitting firmly and secure.
3. Before closing the battery door, be sure that the rubber seal on the battery door is clean and smooth.
4. Once powering on your camcorder the battery icon will appear on the top left of the LCD screen.

Charging the Lithium Battery

In order to charge your lithium battery,

1. Make sure the battery is inserted correctly.
2. Power off the camcorder.
3. Connect your camcorder to a running PC with the USB cable provided, or use the AC charger provided in the package.
4. The red LED will light up indicating that your camcorder is in charging mode. The LED will switch off when your camcorder is fully charged after approximately 4 hours. The camcorder should not be on while charging.

Note:

- A red battery icon will flash on the LCD when the battery power is insufficient. Shortly thereafter your camcorder will power off.
- Please remove your battery when you don't intend to use your camcorder for a long time.
- Limited internal memory is provided in order to take photos and videos.
- Use a SD Memory card to expand the memory in order to capture and record many more images. All the images in the built-in memory will not be lost if no SD Memory Card has been inserted in the DVR when battery power is low or when you change your battery.
- Do not open the battery door to take out the battery or SD card while photos and videos are being saved to the camcorder. Doing so may cause the photo and video to be lost or damaged.

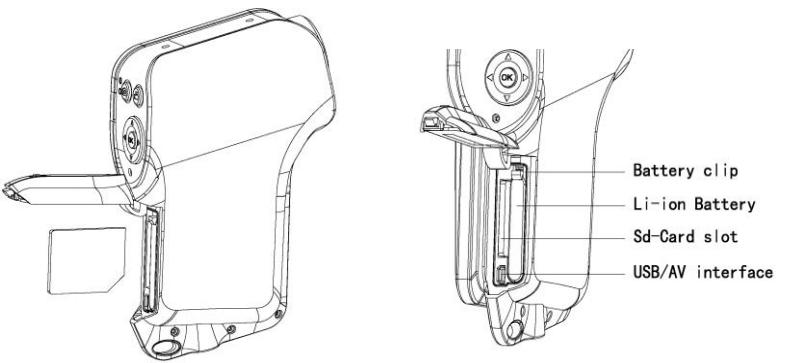
- We strongly recommend downloading your photos and videos regularly to your computer.

Important: It is important that the battery cover be sealed properly before using the camcorder underwater.

Inserting an SD Memory Card

Important: Before installing the SD Memory card make sure you are not near water and that your hands are dry.

To expand the amount of memory, a SD compatible memory card of up to 16GB (not included) should be inserted into your DV camcorder. SD Memory cards increase the number of videos and photos that can be captured with the camcorder before transferring them to a computer.
Images sitting on the memory card are not lost when your camcorder's power runs low or on replacing the battery.



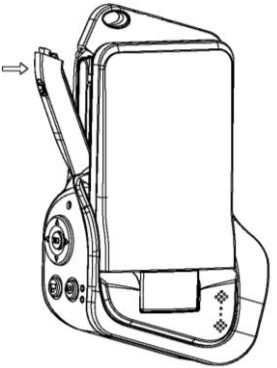
1. Locate the SD card slot to the left of the battery compartment.
2. Insert the SD memory card correctly in the direction shown.
3. Press the memory card until you hear a “Click” sound.

Note: After you insert an SD memory card, the SD card icon will appear on the top right of the LCD, indicating that your SD memory card has been installed successfully. The media you capture will now be stored on the card and not in the internal memory.

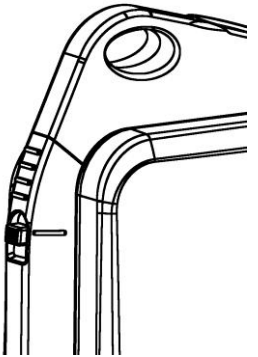
- This product supports SD cards of up to 16GB.
- Make sure that the card is not locked. Locked cards do not allow images to transfer to the card.
- Formatting will delete all data on the SD Memory Card.
- Download all the media to your computer before you format the card.
- Do not remove the SD Memory Card during formatting as this may damage the card and render it unusable.
- Before using the camcorder, be sure to format the card with the camcorder (see the Format section further on in the manual for instruction on how to format the card).

Close Battery Door

After correctly inserting the battery and SD card, clean and make sure no dirt is sticking on the Rubber Seal before you close the battery door.
Press down on the **four lines** that appear next to the battery cover lever as shown in the diagram below. When you hear a “**click**” the battery door is now closed properly.



(A)



(B)

Note:
Check that the small battery cover lever is returned back to the mark line appearing to the side of the lever as shown on diagram (B) above.

Important: It is important that the battery cover be sealed properly before using the camcorder underwater.

Maintenance and Care

Before using the video camcorder, please ensure that you read and understand the safety precautions described below:

- This camcorder can be used underwater to 10 feet. You may notice that water enters the body of the camcorder. This is normal and the camcorder will continue to work properly.
- If water enters the battery compartment then this will ruin the camcorder. The battery compartment has a water resistant cover that when closed tightly will not allow water to enter. Please ensure that the battery door is closed properly before going in the water.
- After using the camcorder in sea (salt) water, first rinse the camcorder with clean water as soon as you can, and put in a dry place, so that the water inside the camcorder will dry out.
- On Lifting and opening the LCD screen, be careful not to over rotate the screen.
- Direct sunlight might cause damage to the camcorder.
- Only clean the lens and LCD with a soft cloth.
- Do not store the camcorder in temperatures above 40℃.
- Condensation may appear with sudden changes in temperature. Take care to not leave the camcorder in extreme temperatures.
- Do not try to open the case of the video camcorder or attempt to modify this video camcorder in any way. Maintenance and repairs should be carried out only by authorized service providers.
- Opening the cover of the Camcorder may cause electrical shock and will void your warranty.
- Use only the recommended power accessories. Use of power sources not expressly recommended for this equipment may lead to overheating, distortion of the equipment, fire, electrical shock or other hazards.

Initial Camcorder Setup

When powering the camcorder ON for the first time the camcorder will recommend that you set the Language and Date/Time options before you start using the camcorder.

Powering the Camcorder ON

1) Make sure the battery is fully charged before the first use.
2) Make sure an SD card has been inserted into your camcorder.
3) Make sure the battery cover is tightly closed and locked into place.
4) Press the POWER button to turn on the camcorder

Setting the Camcorder Language

To set the camcorder menu and message language

1) Press the **OK** button.
2) Press the Left/Right button on the **OK** dial until you see the Language icon menu option.
3) Press the Up/Down button to highlight and select the language you desire.

English / French / Spanish / Portuguese / German / Dutch / Italian / Russian / Turkish

4) Press the **OK** button to save your choice and for the interface of the camcorder to change to the language you selected.
5) Press the DC/DV mode button to close the menu and press it again to exit the Setup mode function.

Setting the Date and Time

To set the time and date that will appear on the photos you capture.

1) Press the **OK** button.
2) Press the Left/Right button on the **OK** dial until you see the Date/Time icon menu option.
3) Press the Up/Down button to highlight Date Setup and press **OK** to enter the Date /Time setup mode.
4) Press the Right/Left button to select the Month, Day, Year, Hour, Minutes and AM/PM options you desire to change.
5) Press the Up/Down button to change the digits for each of the date or time options you desire to update.
6) Press the **OK** button to save the date and time you selected.
7) Press the DC/DV mode button to close the menu and press it again to exit the Setup mode function.

Using Your Digital Camcorder

Make sure the batteriy is fully charged before the first use.

Powering the camcorder ON

Flip open the LCD Panel on the side of the camcorder.

The Camcorder will automatically power on.

If the camcorder automatically powers off, press the Power button to turn your camcorder ON. The camcorder will be in Photo Capture mode to start.

Powering the camcorder OFF

To camcorder will automatically power off when the LCD Panel is retuned to the side of the camcorder.

While the camcorder is on, you can press the Power button again at any point to turn your camcorder OFF. You will see a “Goodbye” splash screen and then the camcorder will power off completely.

Note: your digital camcorder also has an Auto Power Off feature that will automatically turn off your camcorder after a specific period of time that your camcorder is left idle. The Auto Power Off settings can be set from the Auto Power Off settings menu.

Changing Camcorder Mode

Your camcorder has three main modes:

1) **DV (Video) Capture Mode -** Use this mode to capture videos with your camcorder.
2) **DC (Photo) Capture Mode -** Use this mode to capture photos with your camcorder.
3) **Playback Mode -** Use this mode to view the photos and videos you have already taken with your camcorder.

When the camcorder is first powered ON, the DV (Video) Capture Mode will be active. The icons that appear on the LCD screen are the best default settings so that you can begin to capture and enjoy clear quality photos.

To change the active camcorder mode, make sure the camcorder is powered ON. Press the DC Mode button to select the DC (Photo) mode.
Press the Playback Button on the inside wall of the DVR to open the Playback mode.

When in Video Capture Mode, this icon will display on the top left corner of the LCD display

When in Photo Capture Mode, this icon will display on the top left corner of the LCD display

When in Playback Mode, this icon will display on the top left corner of the LCD display

Navigating the Menus

Each camcorder mode has a set of menus specific to that mode. Press the **OK/MENU** button to open the menus for the current mode.

1) Press the **LEFT or RIGHT** direction control buttons to scroll between the various menus for the current mode.
2) Press the **UP or DOWN** direction control buttons to highlight the desired menu selection.
3) Press the **OK** button to confirm and select the highlighted menu option.
4) If the selection can be remembered by the camcorder, a selection icon will appear to the right of the selected menu option. Changes made to these options will remain as is until you decide to change them again at a later time.

5) Some menu options are single-use functions that are not remembered by the camcorder and do not display this icon when selected.

6) At any time you can press the **OK** button to exit the menus and return to the previous screen.

Video Capture Mode

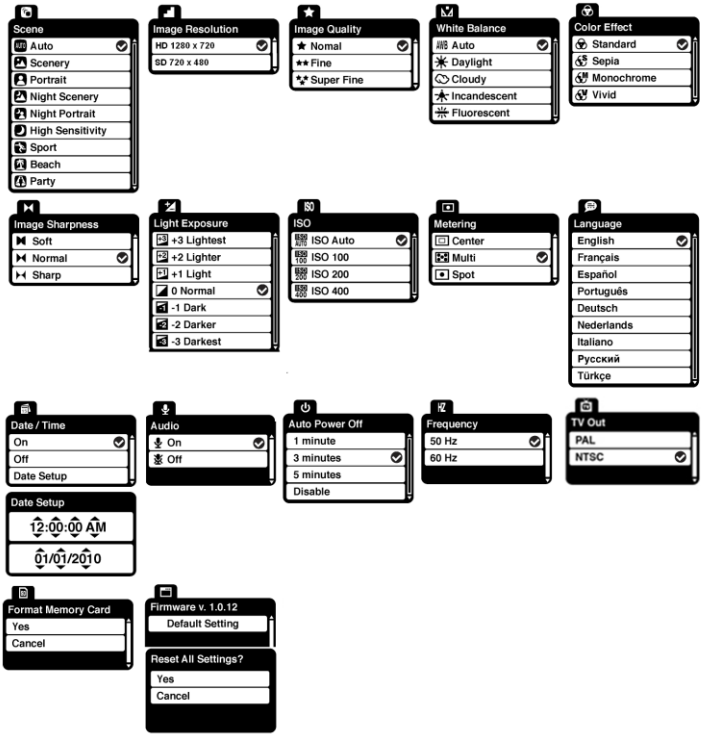
The Video Capture Mode allows you to capture videos with your digital camcorder. When the camcorder is first powered ON, the camcorder will be in **DV** (Video) Capture Mode by default.

Taking a Video

1) While in Video Capture Mode use the LCD display on the back of the camcorder to direct the camcorder at the scene you would like to capture.
2) Click the Up/Zoom In and Down/Zoom Out buttons to better set the camcorder display if desired.
3) Press the **DV** button to start the video capture.
4) You will see the memory countdown icon at the top of the LCD counting down, indicating that the record is in progress.
5) To stop the video record, press the **DV** button again.
6) The video will automatically be saved to the camcorder`s memory or SD card memory card.

Video Capture Mode Menus

The following are the menus that appear in your camcorder's Video Capture Mode:



Scene Menu

The Scene Menu allows you to choose scene settings that allow your camcorder to adapt properly to your current environment.

1) Press the **OK** button to enter the Menu mode.
2) Press the **LEFT** or **RIGHT** button to select the menu item.
3) Press the **UP** or **DOWN** direction control buttons to scroll through the submenu options.
4) Press the **OK** button to select the desired option.
5) A selected option icon will appear on the selected item.
6) Press the **LEFT** or **RIGHT** button to select the next menu item.
7) Press the **DV** button to exit the menu and return to your previous mode.
8) An icon reflecting your selection will display on the LCD screen.
9) Remember that this setting will be remembered by your camcorder until you manually change the setting or restore the camcorder's default factory settings.

Image Resolution Menu

The Image Resolution menu allows you to choose the desired size of the images taken by your camcorder.

Keep in mind that images with a higher resolution will also take up more of your camcorder's memory.

1) Press the **OK** button to enter the Menu mode.
2) Press the **LEFT** or **RIGHT** button to select the menu item.
3) Press the **UP** or **DOWN** direction control buttons to scroll through the submenu options.
4) Press the **OK** button to select the desired option.
5) A selected option icon will appear on the selected item.
6) Press the **LEFT** or **RIGHT** button to select the next menu item.
7) Press the **DV** button to exit the menu and return to your previous mode.
8) An icon reflecting your selection will display on the LCD screen.
9) Remember that this setting will be remembered by your camcorder until you manually change the setting or restore the camcorder's default factory settings.

Image Quality Menu ★

The Image Quality menu allows you to select the desired quality level of the images taken by your camcorder. Keep in mind that images with a higher image quality level will also take up more memory on your camcorder.

1) Press the **OK** button to enter the Menu mode.
2) Press the **LEFT** or **RIGHT** button to select the menu item.
3) Press the **UP** or **DOWN** direction control buttons to scroll through the submenu options.
4) Press the **OK** button to select the desired option.
5) A selected option icon will appear on the selected item.
6) Press the **LEFT** or **RIGHT** button to select the next menu item.
7) Press the **DV** button to exit the menu and return to your previous mode.
8) An icon reflecting your selection will display on the LCD screen.
9) Remember that this setting will be remembered by your camcorder until you manually change the setting or restore the camcorder's default factory settings.

White Balance Menu

The White Balance feature allows your camcorder to adjust the coloring of the captured images depending on the type of light source in the current environment.
Properly adjusting the White Balance setting to match your current environment will allow the camcorder to properly balance the colors in the images that are taken with your camcorder.

1) Press the **OK** button to enter the Menu mode.

2) Press the **LEFT** or **RIGHT** button to select the menu item.
3) Press the **UP** or **DOWN** direction control buttons to scroll through the submenu options.
4) Press the **OK** button to select the desired option.
5) A selected option icon will appear on the selected item.
6) Press the **LEFT** or **RIGHT** button to select the next menu item.
7) Press the **DV** button to exit the menu and return to your previous mode.
8) An icon reflecting your selection will display on the LCD screen
9) Remember that this setting will be remembered by your camcorder until you manually change the setting or restore the camcorder's default factory settings.

Color Effect Menu

You can choose to add a color effect to the images taken with your camcorder.

1) Press the **OK** button to enter the Menu mode.
2) Press the **LEFT** or **RIGHT** button to select the menu item.
3) Press the **UP** or **DOWN** direction control buttons to scroll through the submenu options.
4) Press the **OK** button to select the desired option.

5) A selected option icon will appear on the selected item.

6) Press the **LEFT** or **RIGHT** button to select the next menu item.

7) Press the **DV** button to exit the menu and return to your previous mode.

8) Remember that this setting will be remembered by your camcorder until you manually change the setting or restore the camcorder's default factory settings.

Image Sharpness Menu

You can set the level of sharpness in the images taken with your camcorder. The sharpness level dictates if the edges of objects in the image are more or less distinct.

1) Press the **OK** button to enter the Menu mode.

2) Press the **LEFT** or **RIGHT** button to select the menu item.

3) Press the **UP** or **DOWN** direction control buttons to scroll through the submenu options.

4) Press the **OK** button to select the desired option.

5) A selected option icon will appear on the selected item.

6) Press the **LEFT** or **RIGHT** button to select the next menu item.

7) Press the **DV** button to exit the menu and return to your previous mode.

8) An icon reflecting your selection will display on the LCD screen
9) Remember that this setting will be remembered by your camcorder until you manually change the setting or restore the camcorder's default factory settings.

Light Exposure Menu

The Light Exposure setting helps you control the amount of light that enters your camcorder's lens. This setting should be adjusted when the environment is lighter or darker than normal.

When the environment has more light than is needed, reduce the exposure setting (by using the negative - count) to reduce the amount of light allowed into the lens by your camcorder.

If the environment has less light (darker) than is needed, increase the exposure setting (by using the positive + count) to increase the amount of light allowed into the lens by your camcorder.

1) Press the **OK** button to enter the Menu mode.
2) Press the **LEFT** or **RIGHT** button to select the menu item.
3) Press the **UP** or **DOWN** direction control buttons to scroll through the submenu options.
4) Press the **OK** button to select the desired option.

5) A selected option icon will appear on the selected item.

6) Press the **LEFT** or **RIGHT** button to select the next menu item.

7) Press the **DV** button to exit the menu and return to your previous mode.

8) An icon reflecting your selection will display on the LCD screen

9) Remember that this setting will be remembered by your camcorder until you manually change the setting or restore the camcorder's default factory settings.

ISO Menu ISO

The ISO menu allows you to set the level of sensitivity that your camcorder has to light in the surrounding environment. When the ISO level is increased, the image sensor in your camcorder will be more sensitive to light and allow you to capture images in lower-light situations. The higher sensitivity to light however, may reduce the quality of the images that are taken.

When the ISO is reduced, the image sensor in your camcorder will be less sensitive to light and will optimize the image quality in environments with bright lighting.

1) Press the **OK** button to enter the Menu mode.

2) Press the **LEFT** or **RIGHT** button to select the menu item.

3) Press the **UP** or **DOWN** direction control buttons to scroll through the submenu options.

4) Press the **OK** button to select the desired option.

5) A selected option icon will appear on the selected item

6) Press the **DV** button to exit the menu and return to your previous mode.

7) An icon reflecting your selection will display on the LCD screen

8) Remember that this setting will be remembered by your camcorder until you manually change the setting or restore the camcorder's default factory settings.

Metering Menu

The Metering setting will affect how your camcorder focuses when capturing an image. Depending on your selection, the camcorder will be more sensitive to focusing on particular areas in the display and adjust the image color and lighting accordingly.

Center – Averages the light metered from the entire frame, but giving greater weight to the subjectin the center

Multi – Used in standard conditions the camcorder divides and adjusts the settings of the image into several zones for light metering such as complex light conditions, position of subject, brightness, background, direct light and scenes

Spot – Meters the area within the spot point frame at the center of the LCD to set the exposure on the subject in the center of the monitor.

1) Press the **OK** button to enter the Menu mode.
2) Press the **LEFT** or **RIGHT** button to select the menu item.
3) Press the **UP** or **DOWN** direction control buttons to scroll through the submenu options.
4) Press the **OK** button to select the desired option.
5) A selected option icon will appear on the selected item
6) Press the **DV** button to exit the menu and return to your previous mode.
7) An icon reflecting your selection will display on the LCD screen
8) Remember that this setting will be remembered by your camcorder until you manually change the setting or restore the camcorder's default factory settings.

Language Menu

You can select your camcorder's language setting by selecting the desired language from the Language menu.

1) Press the **OK** button to enter the Menu mode.
2) Press the **LEFT** or **RIGHT** button to select the menu item.
3) Press the **UP** or **DOWN** direction control buttons to scroll through the submenu options.

4) Press the **OK** button to select the desired option.

5) A selected option icon will appear on the selected item.

6) Press the **LEFT** or **RIGHT** button to select the next menu item.

7) Press the **DV** button to exit the menu and return to your previous mode.

8) Remember that this setting will be remembered by your camcorder until you manually change the setting or restore the camcorder's default factory settings.

Date/Time Menu

When you capture an image with your camcorder, the image will include a time stamp with the date and time that the image was taken.

The Date/Time menu allows you to set your camcorder's date and time as desired. You can also disable the timestamp for future images that will be taken with your camcorder.

On – The timestamp will appear on photos taken

Off – The date stamp will not appear on photos taken

To Enable/Disable the Timestamp:

1) Press the **OK** button to enter the Menu mode.

2) Press the **LEFT** or **RIGHT** button to select the menu item.
3) Press the **UP** or **DOWN** direction control buttons to scroll through the submenu options.
4) Press the **OK** button to select the desired option.
5) A selected option icon now appears to the right of the option name
6) Press the **DV** button to exit the menu and return to your previous mode.
7) Remember that this setting will be remembered by your camcorder until you manually change the setting or restore the camcorder's default factory settings.

To Set the Date and Time:

1) Highlight the "Date Setup" menu option.
2) Press the **OK** button to select the desired option.
3) The Date Setup submenu will open
4) Scroll through the window with the right and left navigation buttons. For each field in the menu, use the up and down navigation buttons to set the time and date.
5) Press the **OK** button to save, exit the menu and return to your previous screen.

Audio Menu

The Audio menu allows you to control the camcorder's ability to record audio in the video clips recorded with your camcorder in addition to the video record.

1) Press the **OK** button to enter the Menu mode.
2) Press the **LEFT** or **RIGHT** button to select the menu item.
3) Press the **UP** or **DOWN** direction control buttons to scroll through the submenu options.
4) Press the **OK** button to select the desired option.
5) A selected option icon will appear on the selected item
6) Press the **DV** button to exit the menu and return to your previous mode.
7) An icon reflecting your selection will display on the LCD screen
8) Remember that this setting will be remembered by your camcorder until you manually change the setting or restore the camcorder's default factory settings.

Auto Power Off Menu

You can use the Auto Power Off feature in order to conserve you camcorder's battery life. The designated time represents when your camcorder will automatically power off.

When the camcorder sits idle for the designated period of time, the camcorder will shut off completely and will need to be powered on again with the power button before the next use.

1) Press the **OK** button to enter the Menu mode.
2) Press the **LEFT** or **RIGHT** button to select the menu item.
3) Press the **UP** or **DOWN** direction control buttons to scroll through the submenu options.
4) Press the **OK** button to select the desired option.
5) A selected option icon will appear on the selected item.
6) Press the **LEFT** or **RIGHT** button to select the next menu item.
7) Press the **DV** button to exit the menu and return to your previous mode.
8) Remember that this setting will be remembered by your camcorder until you manually change the setting or restore the camcorder's default factory settings.

Frequency Menu HZ

The options in the Frequency menu represent the frequency of the electrical current in flourescent lighting sources in your locale. If your camcorder is set to a frequency that does not match your country's electric current, you may see waves on the images taken by your camcorder.

50Hz – UK, Europe and Australia

60Hz – US, Canada and South America

1) Press the **OK** button to enter the Menu mode.

2) Press the **LEFT** or **RIGHT** button to select the menu item.
3) Press the **UP** or **DOWN** direction control buttons to scroll through the submenu options.
4) Press the **OK** button to select the desired option.
5) A selected option icon will appear on the selected item
6) Press the **LEFT** or **RIGHT** button to select the next menu item.
7) Press the **DV** button to exit the menu and return to your previous mode.
8) Remember that this setting will be remembered by your camcorder until you manually change the setting or restore the camcorder's default factory settings.

TV Out Menu

The TV Out menus allows you to view your camcorder's display on a TV or monitor when the camcorder is connected to it. Your camcorder's display will be disabled while the TV Out feature is in use. Be sure to select the TV Out option that matches your current TV format – NTSC or PAL.

1) Press the **OK** button to enter the Menu mode.
2) Press the **LEFT** or **RIGHT** button to select the menu item.
3) Press the **UP** or **DOWN** direction control buttons to scroll through the submenu options.
4) Press the **OK** button to select the desired option.

5) A selected option icon will appear on the selected item

6) Press the **DV** button to exit the menu and return to your previous mode.

7) Remember that this setting will be remembered by your camcorder until you manually change the setting or restore the camcorder's default factory settings.

Format Memory Card Menu

You can use the Format Memory Card menu to delete all of the content that is currently on your camcorder's memory card.

Keep in mind that formatting the memory card will permanently delete all of the content on your camcorder's memory card.

This option will delete all of the content at one time. If you would like to delete individual images, use the delete menu in the camcorder's Playback mode.

1) Press the **OK** button to enter the Menu mode.

2) Press the **LEFT** or **RIGHT** button to select the menu item.

3) Press the **UP or DOWN** direction control buttons to highlight the menu options. While scrolling down the selected option will be highlighted.

4) If you would like to proceed with the format, select "Yes" and press the **OK** button.

5) You will be asked to confirm your wish to format your memory card.
6) Select “No” to exit without formatting.
7) Select “Yes” and press the **OK** button to begin the format.
8) The memory card will be completely formatted
9) A message will appear confirming that your memory card has been formatted clean.

Factory Settings Menu

Use this menu to view the Firmware version on your camcorder or to reset your camcorder settings to the factory default settings.

1) Press the **OK** button to enter the Menu mode.
2) Press the **LEFT** or **RIGHT** button to select the menu item.
3) The “Default Setting” is selected.
4) Press the **OK** button to reset the camcorder to the factory default settings.
5) You will be asked to confirm your wish to restore all of the factory settings.
6) Press the **UP** or **DOWN** buttons to select “Yes” and press the **OK** button to begin the format.
7) The camcorder will be reset.
8) A message will appear indicating that the settings have been reset successfully.

Video Playback Mode

When you first turn on the camcorder, the camcorder will be in Video Capture mode by default. Press the **Playback** button to open the **Playback** Mode. The playback mode will allow you to review and edit photos and videos that you've already taken with you camcorder. Videos appear with an **AVI** icon on the top left of the LCD screen.

Thumbnail View

You can view all the images in the memory in a 3x3 thumbnail matrix.

1) Press the Down button to open the thumbnail view.
2) Press the direction buttons to navigate the thumbnails to select the image you wish to preview.
3) Press the **OK** button to open the selected image in full screen.

Playing Videos on Your Camcorder

Once in Playback mode, press the LEFT or RIGHT direction buttons to scroll through the images on your camcorder's or SD memory card. Each image will display on the LCD screen.

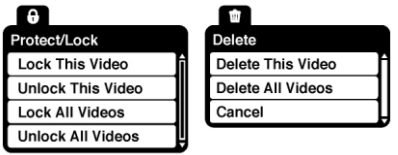
When you find a video that you would like to play, press the **DV** button to start playing the video.

1) Press the **DV** button again to pause the video and continue playing and pausing as needed.
2) Press the **Left** button to Fast Rewind the video while it is playing.
3) Press the **Right** button to Fast Forward the video while it is playing.

4) Press the **Up** button to adjust and increase the speaker volume or the **Down** button to decrease the speaker volume.

Video Playback Mode Menus

The following are the menus that appear when you press the **OK** button in your camcorder's Video Playback Mode:



Protect/Lock Menu

Pictures and Videos taken with your camcorder can be protected or "locked" to prevent any deletion or alteration being made to the files.

1) Press the **OK** button to enter the Menu mode.
2) Press the **LEFT** or **RIGHT** button to select the menu item.
3) Press the **UP** or **DOWN** direction control buttons to scroll through the submenu options.
4) Press the **OK** button to select the desired option.

5) Press the UP or DOWN direction control buttons to confirm the submenu option.
6) Press the **OK** button to select the desired option.
7) Any image that is locked will display a lock symbol on the LCD screen when viewing that image in the playback mode. Videos that are not locked will not display the lock symbol.
8) Remember that you cannot delete locked videos.

Delete Menu

While in the playback mode, you can delete videos from your camcorder through the delete menu.

1) View the image you would like to delete.
2) Press the **OK** button to open the menus.
3) Scroll to the Delete Menu.
4) Press the UP or DOWN direction control buttons to scroll through the menu options.
5) To delete this one video, select “Delete This Video”.
6) To delete all the images (including all unlocked photos and videos) on your camcorder’s memory card, select “Delete All Images”.
7) Press the **OK** button to select the desired option.
8) You will be asked to confirm your selection.
9) Press the **OK** button to select the desired option for the videos to be deleted as desired.

Caution: The deleting process is irreversible and the images will be lost forever if they are not firstly downloaded to the computer before deletion.

Photo Capture Mode

The first mode to appear when the camcorder is powered on is the Video Capture mode. To change to the Photo Capture mode press the **DC** (Photo) button.

Taking a Picture

1) While in Photo Capture mode, use the LCD display on the back of the camcorder to direct the camcorder at the scene you would like to capture.
2) Click the Up/Zoom In and Down/Zoom Out buttons to zoom in/out if desired.
3) Click the **DC** button to take the picture.
4) The picture will automatically be saved to the memory or SD card.

Flash Options

There are two Flash options available on your camcorder. The options appear on the Photo Capture Mode LCD screen in the sequence.

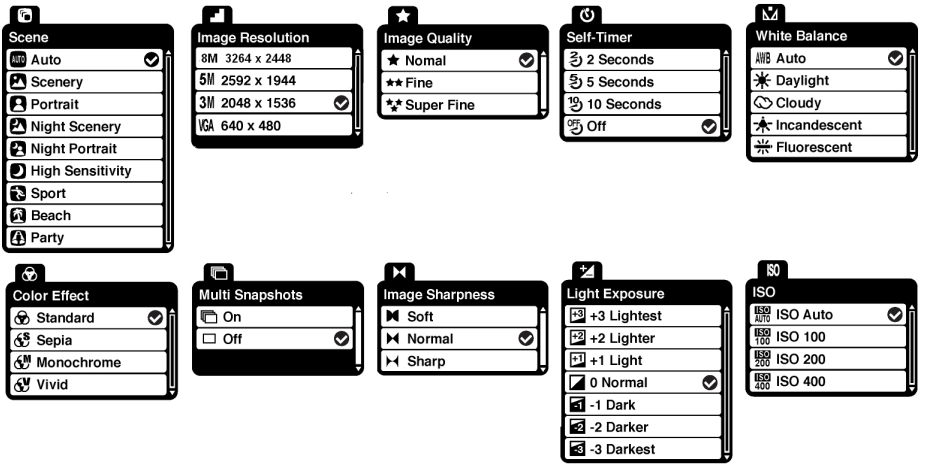
To activate and change the Flash mode, press the Left button until you arrive at your desired settings.

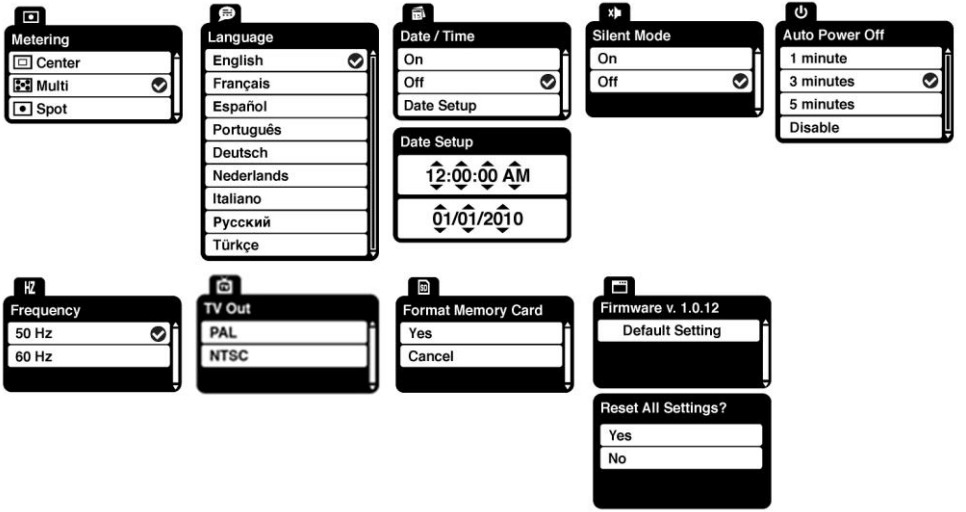
Note: the Flash will only activate if there is sufficient battery power.

Forced Off (Default)	**Auto Flash**	**Forced On**

Photo Capture Mode Menus

The following are the menus that appear when you press the **OK** button in your camcorder's Photo Capture Mode:





Scene Menu

The Scene Menu allows you to choose scene settings that allow your camcorder to adapt properly to your current environment.

1) Press the **OK** button to enter the Menu mode.
2) Press the **LEFT** or **RIGHT** button to select the menu item.

3) Press the **UP** or **DOWN** direction control buttons to scroll through the submenu options.
4) Press the **OK** button to select the desired option.
5) A selected option icon will appear on the selected item.
6) Press the **LEFT** or **RIGHT** button to select the next menu item.
7) Press the **DC** button to exit the menu and return to your previous mode.
8) An icon reflecting your selection will display on the LCD screen.
9) Remember that this setting will be remembered by your camcorder until you manually change the setting or restore the camcorder's default factory settings.

Image Resolution Menu

The Image Resolution menu allows you to choose the desired size of the images taken by your camcorder. Keep in mind that images with a higher resolution will also take up more of your camcorder's memory.

1) Press the **OK** button to enter the Menu mode.
2) Press the **LEFT** or **RIGHT** button to select the menu item.
3) Press the **UP** or **DOWN** direction control buttons to scroll through the submenu options.
4) Press the **OK** button to select the desired option.

5) A selected option icon will appear on the selected item.

6) Press the **LEFT** or **RIGHT** button to select the next menu item.

7) Press the **DC** button to exit the menu and return to your previous mode.

8) An icon reflecting your selection will display on the LCD screen.

9) Remember that this setting will be remembered by your camcorder until you manually change the setting or restore the camcorder's default factory settings.

Image Quality Menu ★

The Image Quality menu allows you to select the desired quality level of the images taken by your camcorder. Keep in mind that images with a higher image quality level will also take up more memory on your camcorder.

1) Press the **OK** button to enter the Menu mode.

2) Press the **LEFT** or **RIGHT** button to select the menu item.

3) Press the **UP** or **DOWN** direction control buttons to scroll through the submenu options.

4) Press the **OK** button to select the desired option.

5) A selected option icon will appear on the selected item.

6) Press the **LEFT** or **RIGHT** button to select the next menu item.
7) Press the **DC** button to exit the menu and return to your previous mode.
8) An icon reflecting your selection will display on the LCD screen.
9) Remember that this setting will be remembered by your camcorder until you manually change the setting or restore the camcorder's default factory settings.

Self-Timer Menu

The Self-Timer menu allows you to set a delay between the time that the camcorder's shutter button is pressed and the actual capture of the picture.
This is an optimal feature if you don't just want to take the picture but would also would like to be in the picture yourself. Just set the desired self-timer delay, press the shutter button on your camcorder and position yourself in front of the camcorder as desired.

1) Press the **OK** button to enter the Menu mode.
2) Press the **LEFT** or **RIGHT** button to select the menu item.
3) Press the **UP** or **DOWN** direction control buttons to scroll through the submenu options.
4) Press the **OK** button to select the desired option.
5) A selected option icon will appear on the selected item.

6) Press the **LEFT** or **RIGHT** button to select the next menu item.
7) Press the **DC** button to exit the menu and return to your previous mode.
8) An icon reflecting your selection will display on the LCD screen.
9) Remember that this setting will be remembered by your camcorder until you manually change the setting or restore the camcorder's default factory settings.

White Balance Menu

The White Balance feature allows your camcorder to adjust the coloring of the captured images depending on the type of light source in the current environment.
Properly adjusting the White Balance setting to match your current environment will allow the camcorder to properly balance the colors in the images that are taken with your camcorder.

1) Press the **OK** button to enter the Menu mode.
2) Press the **LEFT** or **RIGHT** button to select the menu item.
3) Press the **UP** or **DOWN** direction control buttons to scroll through the submenu options.
4) Press the **OK** button to select the desired option.
5) A selected option icon will appear on the selected item.
6) Press the **LEFT** or **RIGHT** button to select the next menu item.

7) Press the **DC** button to exit the menu and return to your previous mode.
8) An icon reflecting your selection will display on the LCD screen
9) Remember that this setting will be remembered by your camcorder until you manually change the setting or restore the camcorder's default factory settings.

Color Effect Menu

You can choose to add a color effect to the images taken with your camcorder.

1) Press the **OK** button to enter the Menu mode.
2) Press the **LEFT** or **RIGHT** button to select the menu item.
3) Press the **UP** or **DOWN** direction control buttons to scroll through the submenu options.
4) Press the **OK** button to select the desired option.
5) A selected option icon will appear on the selected item.
6) Press the **LEFT** or **RIGHT** button to select the next menu item.
7) Press the **DC** button to exit the menu and return to your previous mode.
8) Remember that this setting will be remembered by your camcorder until you manually change the setting or restore the camcorder's default factory settings.

Multi-Snapshots Menu

When enabled, the Multi-Snapshots feature allows you to take three rapid snapshots in a row with a single click of the shutter button.

This feature can be effective when trying to capture a particular moment in a sporting event or other scenes with quick movements.

1) Press the **OK** button to enter the Menu mode.
2) Press the **LEFT** or **RIGHT** button to select the menu item.
3) Press the **UP** or **DOWN** direction control buttons to scroll through the submenu options.
4) Press the **OK** button to select the desired option.
5) A selected option icon will appear on the selected item.
6) Press the **LEFT** or **RIGHT** button to select the next menu item.
7) Press the **DC** button to exit the menu and return to your previous mode.
8) An icon reflecting your selection will display on the LCD screen
9) Remember that this setting will be remembered by your camcorder until you manually change the setting or restore the camcorder's default factory settings.

Image Sharpness Menu

You can set the level of sharpness in the images taken with your camcorder. The sharpness level dictates if the edges of objects in the image are more or less distinct.

1) Press the **OK** button to enter the Menu mode.
2) Press the **LEFT** or **RIGHT** button to select the menu item.
3) Press the **UP** or **DOWN** direction control buttons to scroll through the submenu options.
4) Press the **OK** button to select the desired option.
5) A selected option icon will appear on the selected item.
6) Press the **LEFT** or **RIGHT** button to select the next menu item.
7) Press the **DC** button to exit the menu and return to your previous mode.
8) An icon reflecting your selection will display on the LCD screen
9) Remember that this setting will be remembered by your camcorder until you manually change the setting or restore the camcorder's default factory settings.

Light Exposure Menu

The Light Exposure setting helps you control the amount of light that enters your camcorder's lens. This

setting should be adjusted when the environment is lighter or darker than normal.

When the environment has more light than is needed, reduce the exposure setting (by using the negative - count) to reduce the amount of light allowed into the lens by your camcorder.

If the environment has less light (darker) than is needed, increase the exposure setting (by using the positive + count) to increase the amount of light allowed into the lens by your camcorder.

1) Press the **OK** button to enter the Menu mode.
2) Press the **LEFT** or **RIGHT** button to select the menu item.
3) Press the **UP** or **DOWN** direction control buttons to scroll through the submenu options.
4) Press the **OK** button to select the desired option.
5) A selected option icon will appear on the selected item.
6) Press the **LEFT** or **RIGHT** button to select the next menu item.
7) Press the **DC** button to exit the menu and return to your previous mode.
8) An icon reflecting your selection will display on the LCD screen
9) Remember that this setting will be remembered by your camcorder until you manually change the setting or restore the camcorder's default factory settings.

ISO Menu ISO

The ISO menu allows you to set the level of sensitivity that your camcorder has to light in the surrounding environment. When the ISO level is increased, the image sensor in your camcorder will be more sensitive to light and allow you to capture images in lower-light situations. The higher sensitivity to light however, may reduce the quality of the images that are taken.

When the ISO is reduced, the image sensor in your camcorder will be less sensitive to light and will optimize the image quality in environments with bright lighting.

1) Press the **OK** button to enter the Menu mode.
2) Press the **LEFT** or **RIGHT** button to select the menu item.
3) Press the **UP** or **DOWN** direction control buttons to scroll through the submenu options.
4) Press the **OK** button to select the desired option.
5) A selected option icon will appear on the selected item
6) Press the **DV** button to exit the menu and return to your previous mode.
7) An icon reflecting your selection will display on the LCD screen
8) Remember that this setting will be remembered by your camcorder until you manually change the setting or restore the camcorder's default factory settings.

Metering Menu

The Metering setting will affect how your camcorder focuses when capturing an image. Depending on your selection, the camcorder will be more sensitive to focusing on particular areas in the display and adjust the image color and lighting accordingly.

Center – Averages the light metered from the entire frame, but giving greater weight to the subjectin the center

Multi – Used in standard conditions the camcorder divides and adjusts the settings of the image into several zones for light metering such as complex light conditions, position of subject, brightness, background, direct light and scenes

Spot – Meters the area within the spot point frame at the center of the LCD to set the exposure on the subject in the center of the monitor.

1) Press the **OK** button to enter the Menu mode.
2) Press the **LEFT** or **RIGHT** button to select the menu item.
3) Press the **UP** or **DOWN** direction control buttons to scroll through the submenu options.
4) Press the **OK** button to select the desired option.
5) A selected option icon will appear on the selected item
6) Press the **DC** button to exit the menu and return to your previous mode.

7) An icon reflecting your selection will display on the LCD screen
8) Remember that this setting will be remembered by your camcorder until you manually change the setting or restore the camcorder's default factory settings.

Language Menu

You can select your camcorder's language setting by selecting the desired language from the Language menu.

1) Press the **OK** button to enter the Menu mode.
2) Press the **LEFT** or **RIGHT** button to select the menu item.
3) Press the **UP** or **DOWN** direction control buttons to scroll through the submenu options.
4) Press the **OK** button to select the desired option.
5) A selected option icon will appear on the selected item.
6) Press the **LEFT** or **RIGHT** button to select the next menu item.
7) Press the **DC** button to exit the menu and return to your previous mode.
8) Remember that this setting will be remembered by your camcorder until you manually change the setting or restore the camcorder's default factory settings.

Date/Time Menu

When you capture an image with your camcorder, the image will include a time stamp with the date and time that the image was taken.

The Date/Time menu allows you to set your camcorder's date and time as desired. You can also disable the timestamp for future images that will be taken with your camcorder.

On – The timestamp will appear on photos taken

Off – The date stamp will not appear on photos taken

To Enable/Disable the Timestamp:

1) Press the **OK** button to enter the Menu mode.
2) Press the **LEFT** or **RIGHT** button to select the menu item.
3) Press the **UP** or **DOWN** direction control buttons to scroll through the submenu options.
4) Press the **OK** button to select the desired option.
5) A selected option icon now appears to the right of the option name
6) Press the **DC** button to exit the menu and return to your previous mode.
7) Remember that this setting will be remembered by your camcorder until you manually change the setting or restore the camcorder's default factory settings.

To Set the Date and Time:

1) Highlight the “Date Setup” menu option.
2) Press the **OK** button to select the desired option.
3) The Date Setup submenu will open
4) Scroll through the window with the right and left navigation buttons. For each field in the menu, use the up and down navigation buttons to set the time and date.
5) Press the **OK** button to save, exit the menu and return to your previous screen.

Silent Mode Menu

You have the option of activating the camcorder’s silent mode to disable all of the sound effects that the camcorder emits when performing camcorder functions.

1) Press the **OK** button to enter the Menu mode.
2) Press the **LEFT** or **RIGHT** button to select the menu item.
3) Press the **UP** or **DOWN** direction control buttons to scroll through the submenu options.
4) Press the **OK** button to select the desired option.
5) A selected option icon will appear on the selected item.

6) Press the **LEFT** or **RIGHT** button to select the next menu item.
7) Press the **DC** button to exit the menu and return to your previous mode.
8) Remember that this setting will be remembered by your camcorder until you manually change the setting or restore the camcorder's default factory settings.

Auto Power Off Menu

You can use the Auto Power Off feature in order to conserve you camcorder's battery life. The designated time represents when your camcorder will automatically power off.
When the camcorder sits idle for the designated period of time, the camcorder will shut off completely and will need to be powered on again with the power button before the next use.

1) Press the **OK** button to enter the Menu mode.
2) Press the **LEFT** or **RIGHT** button to select the menu item.
3) Press the **UP** or **DOWN** direction control buttons to scroll through the submenu options.
4) Press the **OK** button to select the desired option.
5) A selected option icon will appear on the selected item.
6) Press the **LEFT** or **RIGHT** button to select the next menu item.
7) Press the **MENU** button to exit the menu and return to your previous mode.

8) Remember that this setting will be remembered by your camcorder until you manually change the setting or restore the camcorder's default factory settings.

Frequency Menu HZ

The options in the Frequency menu represent the frequency of the electrical current in flourescent lighting sources in your locale. If your camcorder is set to a frequency that does not match your country's electric current, you may see waves on the images taken by your camcorder.

50Hz – UK, Europe and Australia
60Hz – US, Canada and South America

1) Press the **OK** button to enter the Menu mode.
2) Press the **LEFT** or **RIGHT** button to select the menu item.
3) Press the **UP** or **DOWN** direction control buttons to scroll through the submenu options.
4) Press the **OK** button to select the desired option.
5) A selected option icon will appear on the selected item
6) Press the **LEFT** or **RIGHT** button to select the next menu item.
7) Press the **MENU** button to exit the menu and return to your previous mode.

8) Remember that this setting will be remembered by your camcorder until you manually change the setting or restore the camcorder's default factory settings.

TV Out Menu

The TV Out menus allows you to view your camcorder's display on a TV or monitor when the camcorder is connected to it. Your camcorder's display will be disabled while the TV Out feature is in use. Be sure to select the TV Out option that matches your current TV format – NTSC or PAL.

1) Press the **OK** button to enter the Menu mode.
2) Press the **LEFT** or **RIGHT** button to select the menu item.
3) Press the **UP** or **DOWN** direction control buttons to scroll through the submenu options.
4) Press the **OK** button to select the desired option.
5) A selected option icon will appear on the selected item
6) Press the **DV** button to exit the menu and return to your previous mode.
7) Remember that this setting will be remembered by your camcorder until you manually change the setting or restore the camcorder's default factory settings.

Format Memory Card Menu

You can use the Format Memory Card menu to delete all of the content that is currently on your camcorder's memory card.

Keep in mind that formatting the memory card will permanently delete all of the content on your camcorder's memory card.

This option will delete all of the content at one time. If you would like to delete individual images, use the delete menu in the camcorder's Playback mode.

1) Press the **OK** button to enter the Menu mode.
2) Press the **LEFT** or **RIGHT** button to select the menu item.
3) Press the **UP or DOWN** direction control buttons to highlight the menu options. While scrolling down the selected option will be highlighted.
4) If you would like to proceed with the format, select "Yes" and press the **OK** button.
5) You will be asked to confirm your wish to format your memory card.
6) Select "No" to exit without formatting.
7) Select "Yes" and press the **OK** button to begin the format.
8) The memory card will be completely formatted
9) A message will appear confirming that your memory card has been formatted clean.

Factory Settings Menu

Use this menu to view the Firmware version on your camcorder or to reset your camcorder settings to the factory default settings.

1) Press the **OK** button to enter the Menu mode.
2) Press the **LEFT** or **RIGHT** button to select the menu item.
3) The “Default Setting” is selected.
4) Press the **OK** button to reset the camcorder to the factory default settings.
5) You will be asked to confirm your wish to restore all of the factory settings.
6) Press the **UP** or **DOWN** buttons to select “Yes” and press the **OK** button to begin the format.
7) The camcorder will be reset.
8) A message will appear indicating that the settings have been reset successfully.

Photo Playback Mode

When you first turn on the camcorder, the camcorder will be in Video Capture mode by default. Press the **Playback** button on the inside wall of the camcorder to open the **Playback** Mode. The playback mode will allow you to review and edit photos and videos that you've already taken with you camcorder.

Viewing Photos on Your Camcorder

Once in the Playback mode, press the **LEFT** or **RIGHT** direction buttons to scroll through the images on your camcorder or SD memory card. Photos appear with a **JPEG** icon on the top left of the LCD screen .

Thumbnail View

Easily navigate and select the image you wish to view by using the Thumbnail View.
The images on your camcorder will be displayed in a 3 X 3 matrix where you can use the direction buttons to scroll and select images normally from the thumbnails.

1) Press the **Down** button to open the thumbnail view.
2) All the images on your camcorder will appear in the **Thumbnail View**
3) Press the direction buttons to navigate the thumbnails to select the image you wish to preview.
4) Press the **OK** button to open the selected image in full screen.

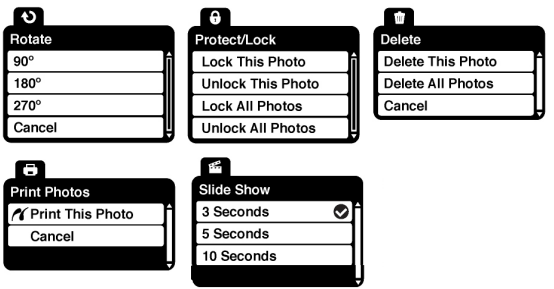
Zooming In/Out and navigate on a Photo

You can zoom in on a photo to see more detail.

1) Press the **Up / Zoom In** button to zoom in or the **Down / Zoom Out** button to zoom back out on a photo on your camcorder.
2) Press the **DC** button to activate the navigation directional buttons.
3) Use the direction buttons to navigate around the photo.
4) Press the **OK** button to cancel the navigation feature.

Photo Playback Mode Menus

The following are the menus that appear in your camcorder's Photo Playback Mode. Press the MENU button for the menus to appear.



Rotate Menu

Use this menu to rotate the pictures that you've taken with your camcorder.

1) Press the **OK** button to enter the Menu mode.
2) Press the **LEFT** or **RIGHT** button to select the menu item.
3) Press the **UP** or **DOWN** direction control buttons to scroll through the submenu options.
4) Press the **OK** button to select the desired option.
5) Press the **UP** or **DOWN** direction control buttons to select the confirmation submenu option.
6) Press the **OK** button to select the desired option.
7) The selected picture will now appear rotated in the Playback mode.

Protect/Lock Menu

Pictures and Videos taken with your camcorder can be protected or "locked" to prevent any deletion or alteration being made to the files.

1) Press the **OK** button to enter the Menu mode.
2) Press the **LEFT** or **RIGHT** button to select the menu item.
3) Press the **UP** or **DOWN** direction control buttons to scroll through the submenu options.

4) Press the **OK** button to select the desired option.
5) Press the **UP** or **DOWN** direction control buttons to confirm the submenu option.
6) Press the **OK** button to select the desired option
7) Any image that is locked will display a lock symbol on the LCD screen when viewing that image in the playback mode. Photos that are not locked will not display the lock symbol.
8) Remember that you cannot delete or edit photos while they are locked.

Delete Menu

While in the playback mode, you can delete pictures from your camcorder through the delete menu.

1) Use the **LEFT** or **RIGHT** buttons to select the image you would like to delete.
2) Press the **OK** button to open the menus.
3) Scroll to the Delete Menu.
4) Press the **UP** or **DOWN** direction control buttons to scroll through the menu options.
5) To delete this one photo, select “Delete This Photo”
6) To delete all the images (including all unlocked photos and videos) on your camcorder’s memory card, select “Delete All Images”.
7) Press the **OK** button to select the desired option.
8) Press the **UP** or **DOWN** direction control buttons to confirm the submenu option.
9) Press the **OK** button to select the desired option for the photos to be deleted as desired.

Print Photos Menu

You can use the Print Photos menu to print the photos that are on your camcorder directly to a Pictbridge compatible printer.

1) Scroll through your pictures and find the one you would like to print.
2) Press the **OK** button to enter the Menu mode.
3) Press the **LEFT** or **RIGHT** button to select the Print Photos menu item.
4) Press the **UP** or **DOWN** direction control buttons to scroll through the submenu options.
5) Press the **OK** button when highlighting the “Print This Photo” option to print the selected photo.
6) You will be asked to connect the camcorder to the Pictbridge printer.
7) Connect the USB cable provided in the package form the camcorder to the Pictbridge port of the printer.
8) Once connected, follow the instructions on the printer to proceed with the printing process.
9) Select the “Cancel” option to exit the menu and return to the previous mode.

Slide Show Menu

You can view a slideshow of all the pictures taken with your camcorder while in the playback mode. The Slideshow menu allows you to set the interval length of time that each picture will display during the slideshow.

Set the Interval:

1) Press the **OK** button to enter the Menu mode.
2) Press the **LEFT** or **RIGHT** button to select the menu item.
3) Press the **UP** or **DOWN** direction control buttons to scroll through the submenu options.
4) Press the **OK** button to select the desired option.
5) A selected option icon will appear on the selected item.
6) The Slide Show will begin to play.
7) Press the **Playback** button to exit the Slide Show and return to the Playback mode, or press the **DC** / **DV** buttons to revert to the Photo or Video Capture modes.

TV Out Function to Connect the Camcorder to a TV or HDTV

The camcorder has an AV port to use your larger TV or HDTV screen in place of the camcorder`s LCD screen. On plugging the TV-out cable (supplied) to the camcorders AV out jack, the LCD screen will turn blank. Use the camcorder as you would to capture and playback photos and videos. The images will appear on the TV instead of on the LCD screen.

Note: The limitation of using the TV screen is that the camcorder is now not portable and the

camcorder will continue to consume battery power.

1) Connect the camcorder to a TV via the TV-out cable (supplied).
2) Turn on the TV and the camcorder, and then set the TV to “AV” mode.
3) You will need to set the TV format on the camcorder to suit the TV format of your TV set.
4) In the Video and Photo Capture mode there is a TV Out menu option – NTSC or PAL.
5) Select the option as per the format of the TV set you are using and press the **OK** button.
6) When the camcorder is set to record mode, you can preview the subjects you want to record on the TV screen.
7) When the camcorder is set to Playback mode, you can review all the photos and videos stored in the SD memory card on the TV.

Installing the Software

You must be connected to the internet to install and run the Vivitar Experience Image Manager software.

1) Insert the installation CD into your CD-ROM drive. The installation screen should automatically open.

2) On PC: The Vivitar Experience Image Manager Installer window appears. If the window does not appear, open the application's CD/DVD drive and click on "Setup.exe" to launch the installer.
3) On Macintosh: Click the icon that appears on the desktop to install the Vivitar Experience Image Manager.
4) If you do not have internet access at the time of inserting the CD-ROM, connect to the internet and then click the "Install Vivitar Experience Image Manager" button to begin the installation.

Note: If you do not have internet access, you can still download media from the camcorder. Click the "How to transfer photos and videos from my camcorder to my computer" button for instructions

You are not connected to the internet at this time
You must be connected to the internet to install and run the Vivitar Experience Image manager
Please re-connect to the internet and try again!
INSTALL
Vivitar Experience IMAGE MANAGER
I do not have access to the internet
How to transfer photos and videos from my camera to my computer
Close

5) If you have internet access, the “Choose your language” window opens, choose your language and click “Next” to open the next window.
6) Select your camcorder model from the list and click “Next” to open the next window.
7) Click “Next” to confirm your camcorder model selection and to install the application.
8) Please wait while the application is being installed on your computer.
9) Please review the license terms.
   On PC and Macintosh: Click the “I accept the terms of this license agreement” and then click “Next” to continue.

10) On PC only: Let the “Vivitar Experience Image Manager” installer create the folder to where the program will be installed, and then click “Install”.
11) Please wait while the application continues the installation process on your computer.
12) On PC: Click the “Close” button when the installation is complete.
The application will automatically open.
13) On Macintosh: Click the “Quit” button when the installation is complete.
Click the “Launch Vivitar Experience Image Manager” to open the application
14) If you close the application you can run the Vivitar Experience Image Manager from the Programs (PC) or Application (Mac) menu on your computer.

Connecting the Camcorder to the Computer

1) Use the USB cable that came with your camcorder to connect your camcorder to your computer.
2) Power the camcorder on.
3) The first time you connect the device to the computer you will have to wait a few seconds until the computer recognizes the device.

Getting Photos and Videos from Your Camcorder to Your Computer

An SD card needs to be inserted. Do not disconnect the cable during transfer. Doing so will cancel the transfer of any files on their way to your computer.

1) Select the “Get Images” button from the Main menu.

2) The “Get media from device” window opens.
3) You can select to download photos, videos or both.
4) Select your camcorder (removable disk) from the device window. If your camcorder is the only USB device connected then it will be selected automatically.
5) Select a location on the computer where to place the new photo and video files.
6) Add the new photo and video files to albums if desired.
7) Select to remove the media files from the selected device (removable disk) after the import.
8) Click the “Get Media” button to transfer the photos and videos from your camcorder to your computer.
9) A media download progress bar appears on the bottom left showing the number of media files downloading to your computer. A message appears when the download is complete.
10) The photo and video files that you selected are now downloaded to your computer to the selected folder and albums ready for your use.

Get started!

Using the Vivitar Experience Image Manager, you can:

- Upload and manage photos and videos to and from the most popular photo sharing and social networking sites - Facebook, Flickr, MySpace, Picasa, Photobucket and YouTube
- Seamlessly transfer photos and videos from one social network to another
- Organize your images by creating offline and online albums

- Edit images using automatic and manual tools
- Use automatic “Geotagging” with built in Google Maps

For more details on how to use the Vivitar Experience Image Manager open the Help file or click the “Take the Tour” button on the application`s Home page.

Transfer media from my camcorder to my computer manually (Using Windows)

1) Use the USB cable that came with your camcorder to connect your camcorder to your computer.

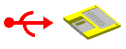
2)

appears on the LCD.

3) A window appears with a list of options, select “Open folder to view files” and click OK.
4) Open the DCIM folder and the folder inside to view the media files.
5) Select the media and copy the files from this folder into your computer. Optionally, select the files and choose Copy from the Edit menu. Then select a folder and choose Paste from the Edit menu.
6) We recommend that you copy the images into the Pictures/My Pictures folder and the videos into the Videos/My Videos folder.
7) Do not disconnect the cable during transfer. Doing so will cancel the transfer of any files on their way to your computer.

Transfer media from my camcorder to my computer manually (Using Macintosh)

1) Use the USB cable that came with your camcorder to connect your camcorder to your computer.

2) 

appears on the LCD.

3) The camcorder's device icon appears on the desktop.

4) Click on the device icon and open the DCIM folder and the folder inside to view the media files.

5) Select the files and drag them into your computer. Optionally, select the files and choose Copy from the Finder's Edit menu. Then select a folder and choose Paste from the Edit menu.

6) We recommend that you copy the images into the Pictures folder and the videos into the Movies folder.

7) Do not disconnect the cable during transfer. Doing so will cancel the transfer of any files on their way to your computer.

Sakar Warranty Card

This warranty covers for the original consumer purchaser only and is not transferable. Products that fail to function properly **UNDER NORMAL USAGE,** due to defects in material or workmanship will be repaired at no charge for parts or labor for a period of one year.

What Is Not Covered By Warranty:

Damages or malfunctions not resulting from defects in material or workmanship and damages or malfunctions from other than normal use, including but not limited to, repair by unauthorized parties, tampering, modification or accident.

What To Do When Service Is Required:

When returning your defective product (postage pre-paid) for service, your package should include:

1) Copy of **original** bill of sale
2) A detailed written description of the problem.
3) Your return address and telephone number (Daytime)

MAIL TO ADDRESS BELOW:

Sakar US	Sakar UK/Europe	Sakar Australia
Sakar International Attention: Service Department 195 Carter Drive Edison, NJ 08817	Sakar International Attention: Service Department 2D, Siskin Parkway East 4020 Middlemarch Business Park Coventry, CV3 4PE	Return faulty camcorder to the Refund Counter at the store where purchased

Technical Support

For technical support issues please visit our website at **www.vivitar.com**. You can find manuals, software and FAQ's at the website. Can't find what you are looking for? E-mail us at **support@vivitar.com** and one of our technical support team members will answer your questions. For phone support in the US please call 1-800-592-9541, in the UK call 0800 917 4831, in Australia call 1800-006-614. If you would like to call from anywhere else, please visit **www.vivitar.com** for your local toll free number.

Troubleshooting

The c**amcorder does not Power on**	
The Battery is inserted in the wrong direction.	Reload battery in the correct direction
The Battery has insufficient power to power on.	Replace or recharge the battery.
The camcorder does not take pictures	
The Memory is full	Insert a new SD memory card.
The Memory card is not formatted correctly	Format the memory card again or use a new card.
Image is blurry or out of focus	
The video camcorder was moving when the image was captured	Hold the video camcorder steady when shooting still pictures.
Recorded images are not saved in memory	
The video camcorder was turned off before the images are saved in memory	If the battery low indicator appears on the LCD monitor, recharge the battery immediately.